

ATTACHMENT B Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1-54 (Cancelled)

55. (Currently Amended) An intervertebral implant comprising,
an upper part having an upper surface for engaging a vertebrae and a lower surface which includes a rounded portion,
a lower part having a lower surface for engaging a vertebrae and an upper surface portion in operative engagement with the rounded portion of the upper part,
the upper part and lower part each having a lead end which leads as the implant is inserted along a path into the intervertebral space and a trailing end opposite the lead end, ~~and including two lateral sides, and lateral planes passing through opposed side surfaces of each part and parallel to the said path.~~

a single anchor on each of the upper surface of the upper part and the lower surface of the lower part, each anchor being located along a line parallel to said path and essentially midway between said lateral sides- planes and of a height sufficient to anchor its respective part into a groove cut into the vertebrae which that surface engages.

56. (Previously Presented) An intervertebral implant according to claim 55, wherein the rounded portion of the upper part is concave and the upper surface portion of the lower part is convex.

57. (Previously Presented) An intervertebral implant according to claim 56, wherein the lower part is formed in two pieces including a lower piece which has the said lower surface and an upper piece which has the upper surface portion.

58. (Previously Presented) An intervertebral implant according to claim 55, wherein the height of at least one anchor is greater than the height of the remainder of its respective upper or lower part.

59. (Previously Presented) An intervertebral implant according to claim 58, wherein both of the anchors are greater in height than the remainder of their respective upper or lower parts.

60. (Currently Amended) An intervertebral implant according to claim 55, the length of at least one anchor in the direction along the midline being greater than one half of the entire ~~front to rear~~ dimension of its respective part along said path.

61. (Currently Amended) An intervertebral implant according to claim 60, wherein the length of both anchors in the direction along the midline are greater than one half of the entire front to rear dimension of their respective upper or lower part along said path.

62. (Previously Presented) An intervertebral implant according to claim 55, wherein the rounded portion of the upper part and the upper surface portion of the lower part are spherical.

63. (Previously Presented) An intervertebral implant according to claim 55, the upper and lower parts, in plan view, being generally rectangular.

64. (Previously Presented) An intervertebral implant according to claim 63, wherein the single anchors are substantially parallel to the shorter sides of the generally rectangular shape of the upper and lower parts.

65. (Previously Presented) An intervertebral implant according to claim 55, including apertures in the trailing ends of the upper and lower parts for receiving inserting instruments.

66. (New) An intervertebral implant according to claim 55, said anchors having teeth on the tops thereof to prevent removal from their respective grooves.

67. (New) An intervertebral implant according to claim 55, wherein the rounded portion of the upper part is partially spherical and concave, and the rounded portion of the lower part is partially spherical and convex.

68. (New) An intervertebral implant according to claim 67, wherein the lower part is formed in two pieces, including a first lower piece which has the lower surface

thereon and a second upper piece which fits into a recess in the lower piece and has the partially spherical convex surface at the top thereof.

69. (New) An intervertebral implant according to claim 68, wherein, in the absence of the second piece of the lower part, the rounded portion of the upper part can nest into the recess in the lower part.

70. (New) An intervertebral implant according to claim 69, wherein, in the nested condition, the height of the upper and lower parts is less than the additive total height of the upper and lower parts, taken separately.

71. (New) An intervertebral implant according to claim 68, wherein the recess in the lower part is a generally flat surface with three walls including two opposite side walls and an end wall and including an opening opposite the end wall.

72. (New) An intervertebral implant according to claim 71, wherein the second upper piece of the lower part includes a means for snap fitting into the first lower piece of the lower part.

73. (New) An intervertebral implant comprising,
a generally rectangular upper part having an upper surface for engaging a vertebrae and a lower surface which includes a rounded portion,

a generally rectangular lower part for engaging a vertebrae and having an upper surface portion in operative engagement with the rounded portion of the upper part, and;

a single anchor on each of the upper surface of the upper part and the lower surface of the lower part, the two single anchors being located along a line essentially midway between the short sides of the generally rectangular upper and lower parts, and each anchor being of a height sufficient to anchor its respective part into a groove cut into the vertebrae which its surface engages.

74. (New) According to claim 73, wherein the rounded portion of the upper part is concave and the upper surface portion of the lower part is convex.

75. (New) According to claim 74, wherein the lower part is formed in two pieces including a lower piece which has the said lower surface and an upper piece which has the upper surface portion.

76. (New) According to claim 73, wherein the height of at least one anchor is greater than the height of the remainder of its respective upper or lower part.

77. (New) According to claim 76, wherein both of the anchors are greater in height than the remainder of their respective upper or lower parts.

78. (New) According to claim 73, the length of at least one anchor in the direction along the midline being greater than one half of the entire front to rear dimension of its respective part.

79. (New) According to claim 78, wherein the length of both anchors in the direction along the midline are greater than one half of the entire front to rear dimension of the lower part.

80. (New) According to claim 73, wherein the rounded portion of the upper part and the upper surface portion of the lower part are spherical.

81. (New) According to claim 73, wherein the rounded portion of the upper part is partially spherical and concave, and the rounded portion of the lower part is partially spherical and convex.

82. (New) According to claim 81, wherein the lower part is formed in two pieces, including a first lower piece which has the lower surface thereon and a second upper piece which fits into a recess in the lower piece and has the partially spherical convex surface at the top thereof.

83. (New) According to claim 82, wherein, in the absence of the second piece of the lower part, the rounded portion of the upper part can nest into the recess in the lower part.

84. (New) According to claim 83, wherein, in the nested condition, the height of the upper and lower parts is less than the additive total height of the upper and lower parts, taken separately.

85. (New) According to claim 82, wherein the recess in the lower part is a generally flat surface with three walls including two opposite side walls and an end wall and including an opening opposite the end wall.

86. (New) According to claim 85, wherein the second upper piece of the lower part includes a means for snap fitting into the first lower piece of the lower part.